

COMPLETE LISTING OF THE CLAIMS:

Claims 1-8 : (Canceled)

Claim 9 : (New) An assembly for controllably driving a slide for precise movement lengthwise along a guide mounted on a bed of a machine tool having a rack, the assembly comprising:

- a) an electrical motor having a stator, a rotor and a shaft extending along an axis;
- b) a casing for containing the motor;
- c) a body rigid with the shaft for turning movement therewith, for supporting the rotor, the body having an annular chamber concentric with the axis;
- d) a pinion of one-piece with the shaft at one axial end region thereof, for drivingly engaging the rack during movement of the slide;
- e) a transducer stem of one-piece with the shaft at an opposite axial end region thereof; and
- f) bearings mounted on the casing at locations spaced axially apart from each other, for supporting the shaft, the pinion and the stem for joint turning movement.

Claim 10 : (New) The assembly of claim 9, wherein the motor is a high torque synchronous motor, and wherein the rotor is a multi-polar closed ring.

Claim 11 : (New) The assembly of claim 9, wherein the casing has end covers on which the bearings are supported.

Claim 12 : (New) The assembly of claim 9, wherein the chamber extends axially through one end region of the body, and wherein a flange overlies the chamber at said one end region.

cont.
Claim 13 : (New) The assembly of claim 9, and a transducer supported by the stem.

Claim 14 : (New) The assembly of claim 9, wherein the body is keyed to the shaft.
